

Rush.

Work Order ID 156009

Friday, January 20, 2017 11:07:58 AM

156009

~~PRELIMINARY ISSUE~~

Page 1

Item ID: D5359-7

Accept

N900040100

Setup Start *NS1*

Revision ID: PRELIM

POSITIVE
RECALL

Item Name: Clevis, Basket End

Stop *NS2*

Start Date: 1/23/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 1/23/2017 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan:  Date: JAN 20 2017 Tooling:

Date:

Run Start *NR1*

QC: Date: SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

D5359	
-------	--

100

100

Doosan

Doosan Lathe

DOOSAN LATHE

Memo

1-Turn as per Folio FB521

Dwg Rev: B8

Folio Rev: AA

0.16

0.13

2-Deburr

110

110

QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

Memo

0.00

0.01

DAS

45 17-01-23

9-89

DAS

45 17-01-23

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 156009

Friday, January 20, 2017 11:07:58 AM

156009

Page 2

Item ID: D5359-7 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: PRELIM Stop ***NS2***
Item Name: Clevis, Basket End
Start Date: 1/23/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 1/23/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC8- Inspect parts - second check	0.00							DAS 38 9-89
120						4			
QC	Memo	0.01							
Quality Control									JAN 24 2017
130	Identify as per dwg & Stock Location: <u>PRELIM</u>	0.00							
130						4			DAS 38 9-89
Packaging	Memo	0.07							
Packaging	LOCATION: WA001 <u>St 165</u>					4			JAN 24 2017
140	QC21- Final Inspection - Work Order Release	0.00							
140									DAS 21 9-89
QC	Memo	0.01							
Quality Control									FEB 13 2017

 JAN 24 2017

POSITIVE RECALLEFFECTIVE  AUTH JAN 20 2017RELEASED DATE 9 17.02.13
9-89As per Rev B.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

6410 - 7-17

Picklist Print

Page 1

Friday, January 20, 2017 11:08:02 AM

Work Order ID: 156009

156009

Parent Item: D5359-7

D5359-7

Parent Item Name: Clevis, Basket End

Start Date: 1/23/2017

Required Date: 1/23/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE 17-01-20 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303R1.000		Purchased	No				f	10.0000		1.263158			

M303R1 000******

303 Round Bar 1.00

LocationLoc QtyLoc Code

MAT028

10

m136036

10

1.269# DAS
45 17-01-23
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

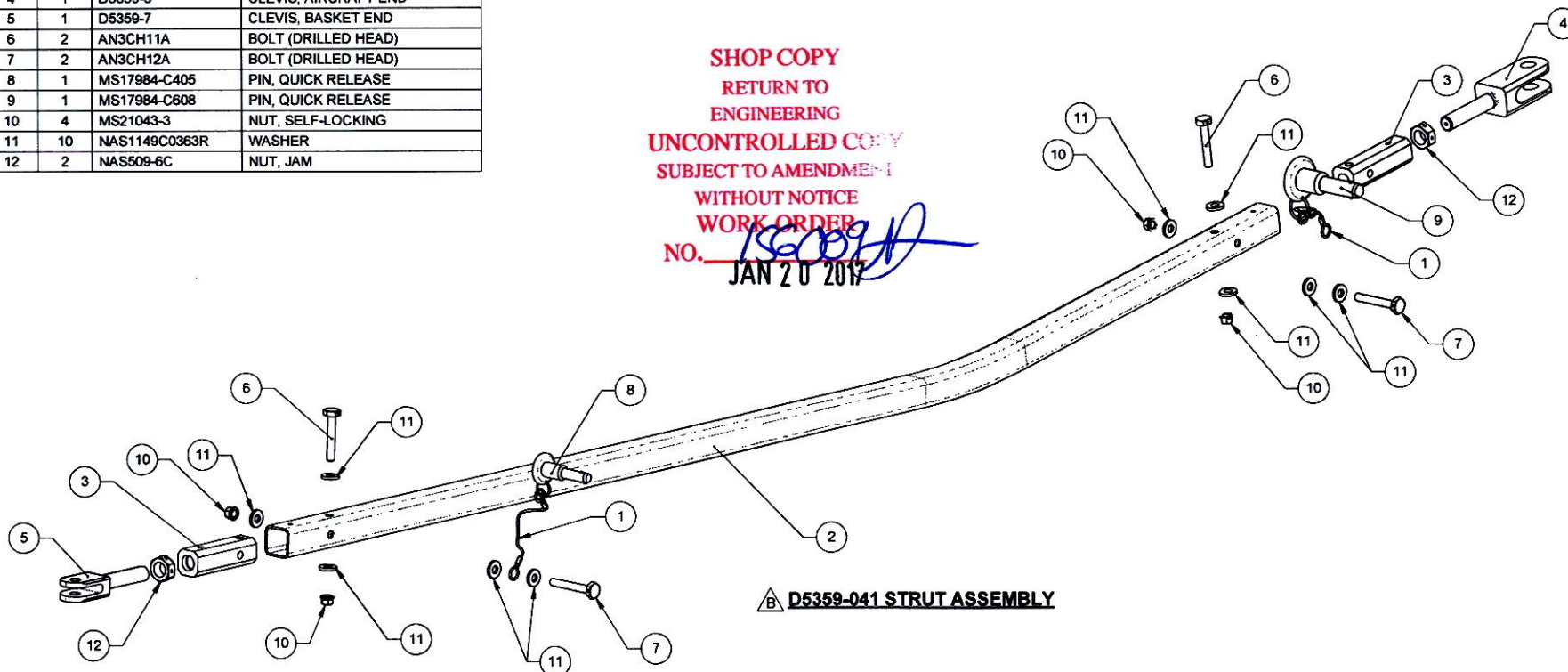
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

ITEM	QTY -041	P/N	DESCRIPTION
	X	D5359-041	STRUT ASSEMBLY
1	2	D2690-6	LANYARD ASSEMBLY
2	1	D5359-1	STRUT
3	2	D5359-3	INSERT
4	1	D5359-5	CLEVIS, AIRCRAFT END
5	1	D5359-7	CLEVIS, BASKET END
6	2	AN3CH11A	BOLT (DRILLED HEAD)
7	2	AN3CH12A	BOLT (DRILLED HEAD)
8	1	MS17984-C405	PIN, QUICK RELEASE
9	1	MS17984-C808	PIN, QUICK RELEASE
10	4	MS21043-3	NUT, SELF-LOCKING
11	10	NAS1149C0363R	WASHER
12	2	NAS509-6C	NUT, JAM

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. *156097*

JAN 20 2012



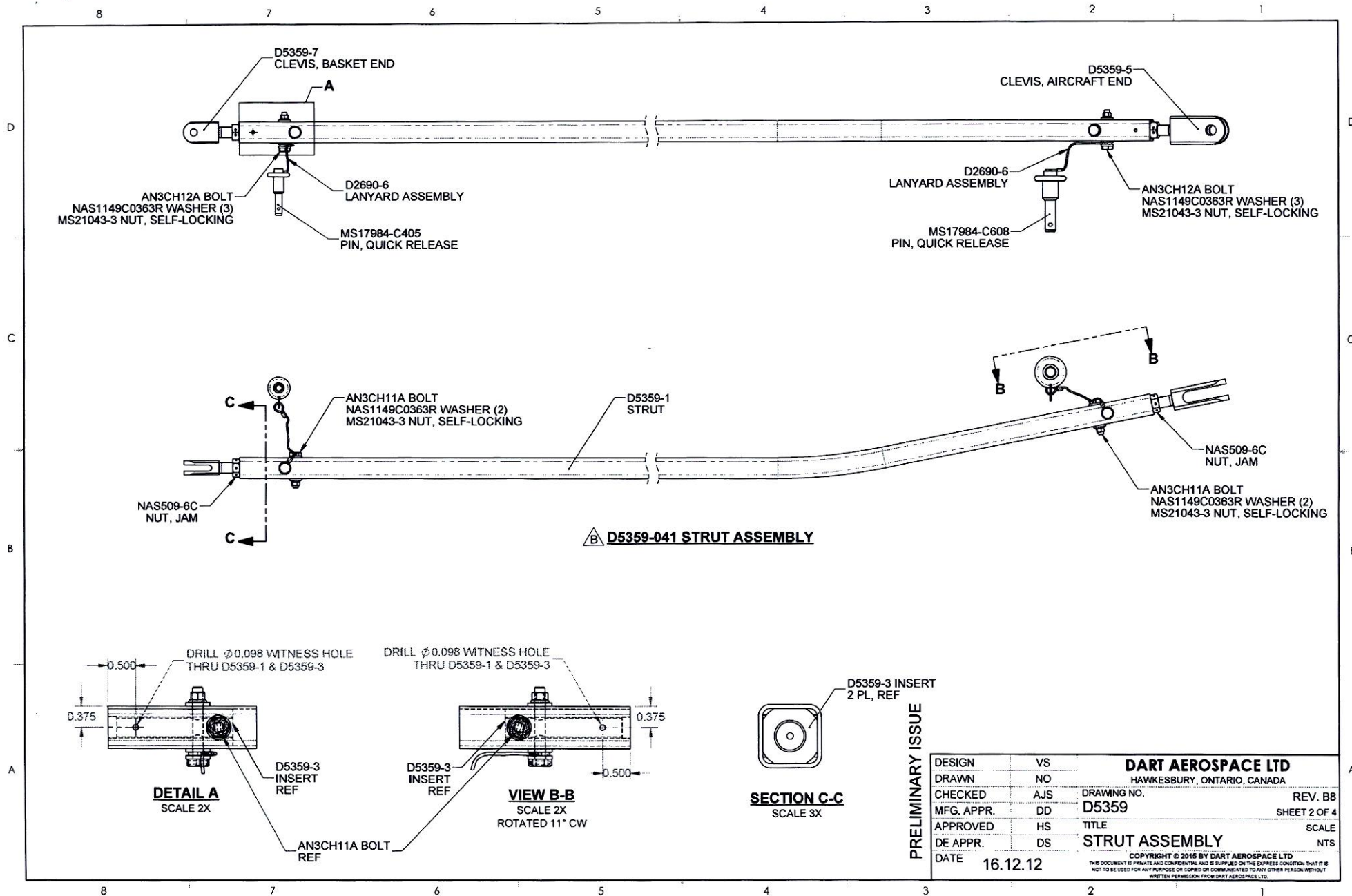
D5359-041 STRUT ASSEMBLY

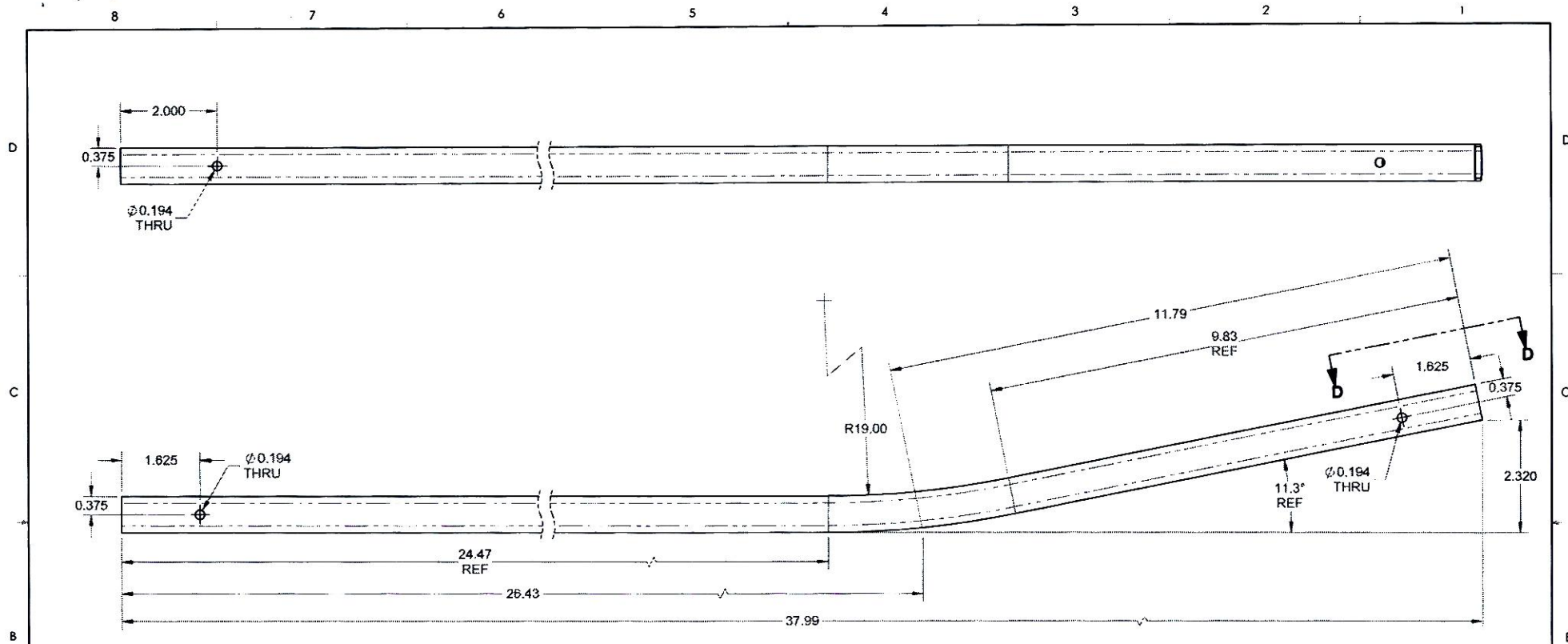
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.1
- 7) WEIGHT: 2.48 lbs

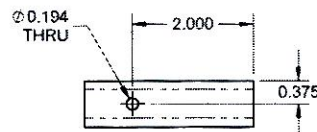
PRELIMINARY ISSUE

B	REDESIGNED TO BE COMPATIBLE WITH BOTH LH + RH INSTALLATIONS. -042 DELETED.	AJS	16.12.12
A	NEW ISSUE	VS	15.11.23
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	NO		
CHECKED	AJS	DRAWING NO.	REV. B8
MFG. APPR.	DD	D5359	SHEET 1 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	STRUT ASSEMBLY	NTS
DATE	16.12.12	COPYRIGHT © 2016 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	





D5359-1 STRUT



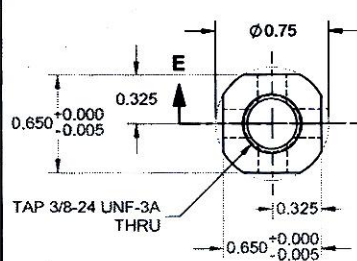
VIEW D-D
SCALE 2X
ROTATED 11° CW

△ B NOTES:

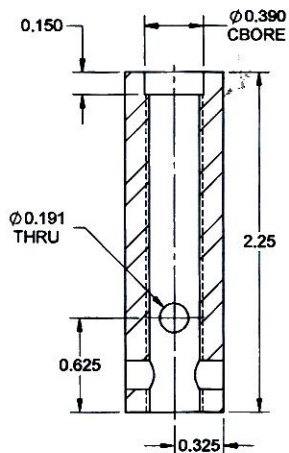
- 1) MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBE, 0.75 X 0.75 X 0.049 WALL
REF DART SPEC M304TS0.750W.049
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.40 lbs
- 8) FLAT LENGTH 38.21 REF

PRELIMINARY ISSUE

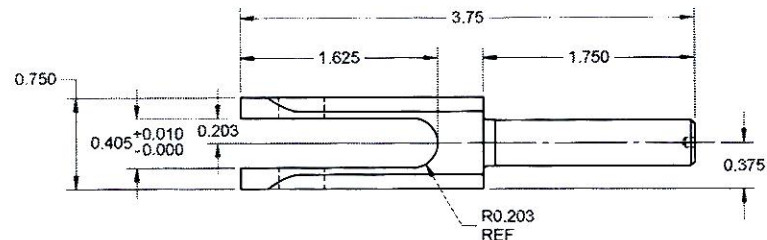
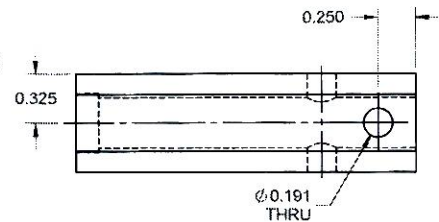
DESIGN	VS	DART AEROSPACE LTD	
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AJS	DRAWING NO.	REV. B8
MFG. APPR.	DD	D5359	SHEET 3 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	STRUT ASSEMBLY	
DATE	16.12.12	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



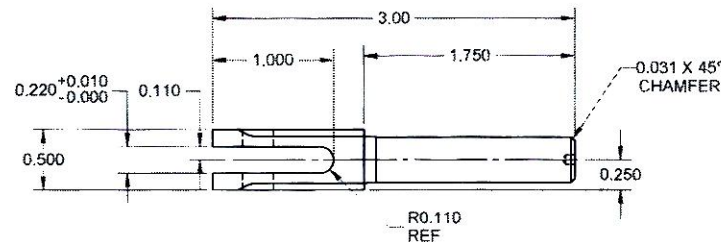
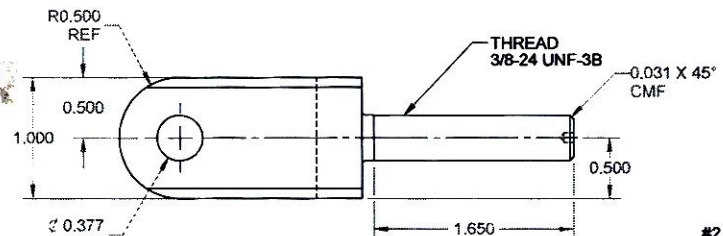
D5359-3 INSERT



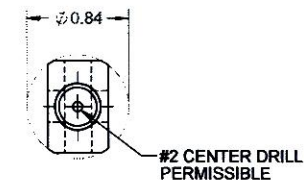
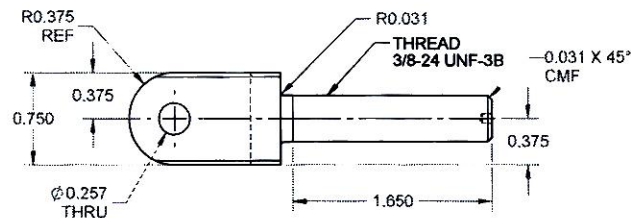
SECTION E-E



D5359-5 CLEVIS, AIRCRAFT END



D5359-7 CLEVIS, BASKET END



NOTES:

- 1) MATERIAL: AISI 303 STAINLESS STEEL ROUND BAR
PER ASTM A582
REF DART SPEC M303R
OR: AISI 304/316 STAINLESS STEEL ROUND BAR
PER ASTM A276
REF DART SPEC M304R
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT -3: 0.19 lbs
-5: 0.27 lbs
-7: 0.13 lbs

PRELIMINARY ISSUE

DESIGN	VS	DART AEROSPACE LTD	
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AJS	DRAWING NO.	REV. B8
MFG. APPR.	DD	D5359	SHEET 4 OF 4
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	STRUT ASSEMBLY	NTS
DATE	16.12.12	COPYRIGHT © 2016 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DART AEROSPACE LTD		Work Order: <u>156008</u>
Description: <u>CLAVIS, BASKET end</u>		Part Number: <u>DS359-7</u>
Inspection Dwg: <u>DS359</u> Rev: <u>B8</u>		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
3.00	+/-0.03	3.002	✓		Caliper	OK
1.000	+/-0.010	0.999	✓			
1.750	+/-0.010	1.750	✓			
0.110	+/-0.010	0.114	✓			
0.220	+0.010/-0.000	0.226	✓			
0.500	+/-0.020	0.505	✓			
0.250	+/-0.010	0.252	✓			
0.031x150	+/-0.010	0.031x150	✓			
1.375	+/-0.010	1.375	✓		rad b	Shap
0.375	+/-0.010	0.375	✓		caliper	OK
0.750	+/-0.010	0.755	✓			
0.257	+0.006/-0.001	0.257	✓			
1.031	+/-0.010	1.031	✓		rad b	Shap
1.650	+/-0.010	1.650	✓		caliper	OK
0.84	+/-0.03	0.838	✓			
3/8-24 UNF3A	NUT	OK	✓		NUT	Shap
Ø MAX-MIN	.3678-.375	0.372	✓		MICOM	OK
LOW-MAX-MIN	.396-.3989	0.398	✓			

Measured by: <u>DAS 45</u>	Audited by: <u>DAS 38</u>	Preliminary Approval:
Date: <u>17-01-23</u>	Date: <u>17-01-23</u>	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

Enclave Order Receipt Listing

[illegible]

All amounts are calculated in domestic currency.

All Line Item Types

(Grouped by Vendor ID)

Order #	Order Date	Order Qty	Unit Price	Order Total	Book Amt
1	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
2	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
3	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
4	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
5	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
6	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
7	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
8	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
9	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
10	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
11	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
12	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
13	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
14	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
15	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
16	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
17	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
18	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
19	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
20	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
21	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
22	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
23	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
24	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
25	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
26	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
27	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
28	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
29	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
30	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
31	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
32	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
33	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
34	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
35	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
36	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
37	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
38	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
39	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
40	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
41	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
42	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
43	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
44	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
45	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
46	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
47	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
48	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
49	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
50	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
51	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01
52	11/1/2016	128.0000	\$3.91	\$501.01	\$501.01



740 Imperial Road North

Certificate: 72213 13 Mail To:

Customer: 007035 501

METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

45604

RSS-12303

69466

#10

Ship To:

Date: 6/29/2015 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 765436

NAS Order: PN 0051184 07

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/12 EN 10204 3.1, ASTM A484/11
AMS 5540 TYPE 1, QOS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE
2011/65/EU. RoHS. EAF+ACD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BR0255 6	5000	1.123	144.00	1	71469106		

CHEMICAL ANALYSIS Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
Chemical Analysis per ASTM A751/08

TEST	CH	C %	CO %	CR %	CU %	HR %	MO %	N %	NI %	P %
T4M3	US	.0421	.1045	17.1405	.3785	1.7905	.2810	.0481	5.3375	.0340
		S %	SI %							
		.3405	.4605							

MECHANICAL PROPERTIES

Product Id	1 d	o i	RB	.2YS	UTS	RA	Ring
	c r	No.	KSI	KSI	%	% 2"	
BR0255 6	R L	210.0	79.67	106.86	36.23	35.55	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ABHIJEET BHAVE

6/29/2015

ACIER CAMP INC. P.O. - 69466 S.O. - 374807

DAS
9-89

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R.500
 DATE: 16-11-14

PO / BATCH NO.: P034079/M136036

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24' 12"
 QUANTITY INSPECTED: 24' 12"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 500
 THICKNESS RECEIVED: 500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	ASTM A502
CORRECT REF # TO LINK CERT	(Y) N	T415
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

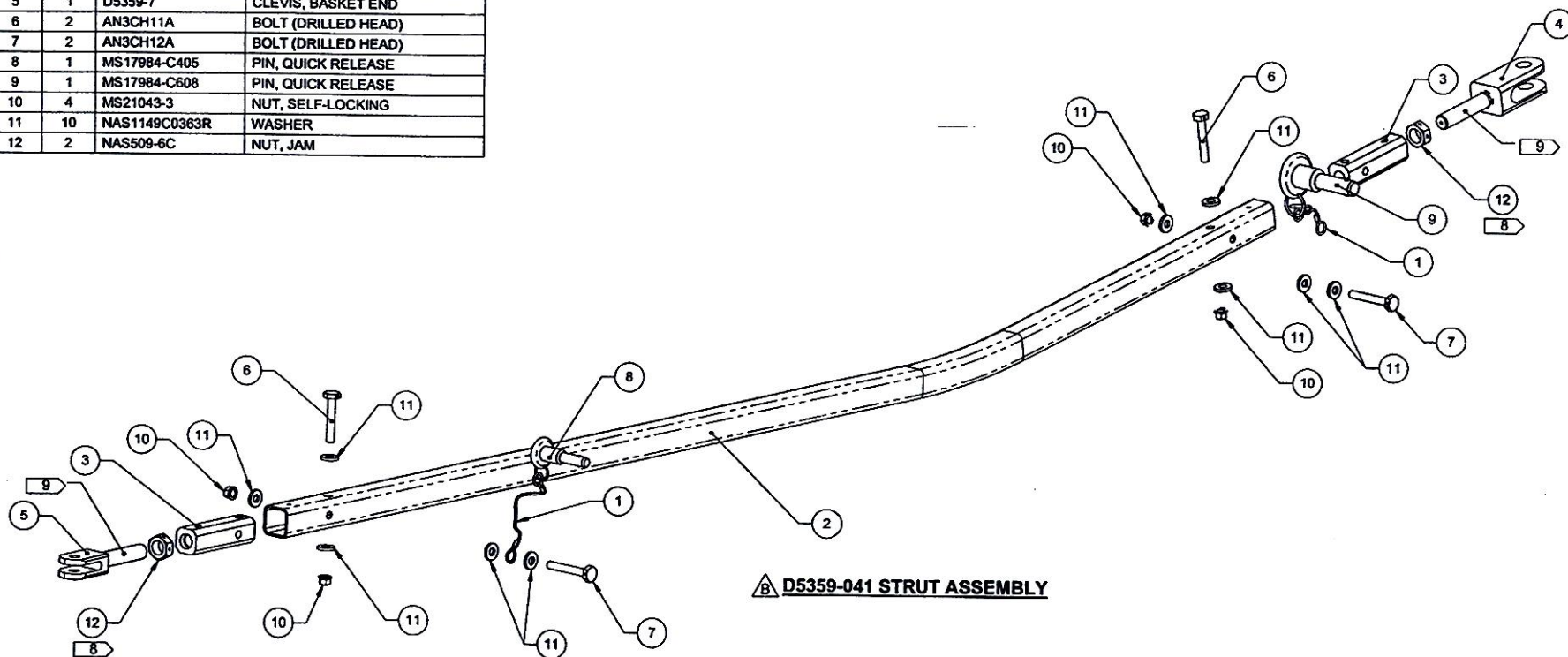
CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89</u> DATE: <u>16-11-14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ITEM	QTY -041	P/N	DESCRIPTION
	X	D5359-041	STRUT ASSEMBLY
1	2	D2690-6	LANYARD ASSEMBLY
2	1	D5359-1	STRUT
3	2	D5359-3	INSERT
4	1	D5359-5	CLEVIS, AIRCRAFT END
5	1	D5359-7	CLEVIS, BASKET END
6	2	AN3CH11A	BOLT (DRILLED HEAD)
7	2	AN3CH12A	BOLT (DRILLED HEAD)
8	1	MS17984-C405	PIN, QUICK RELEASE
9	1	MS17984-C608	PIN, QUICK RELEASE
10	4	MS21043-3	NUT, SELF-LOCKING
11	10	NAS1149C0363R	WASHER
12	2	NAS509-6C	NUT, JAM



D5359-041 STRUT ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.1
- 7) WEIGHT: 2.48 lbs
- 8) HAND TIGHTEN NAS509-6C NUT
- 9) USE TECTYL 502C CLASS I, MIL-PRF-16173E GRADE 2 OR EQUIVALENT ANTI-SEIZE COMPOUND ON THREAD

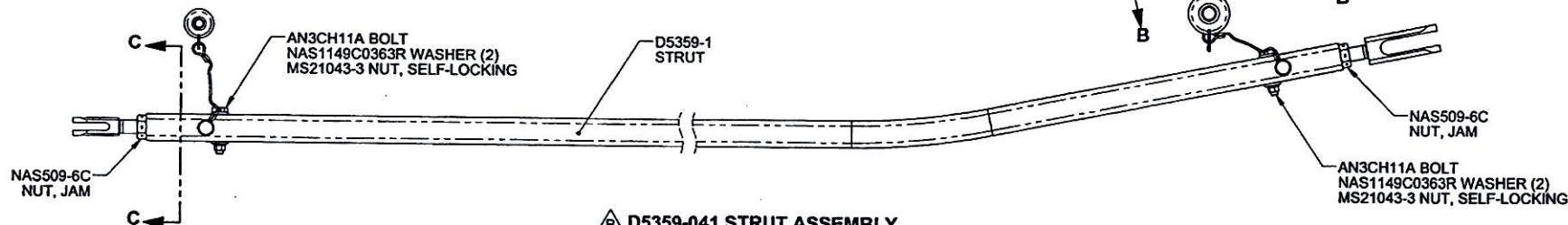
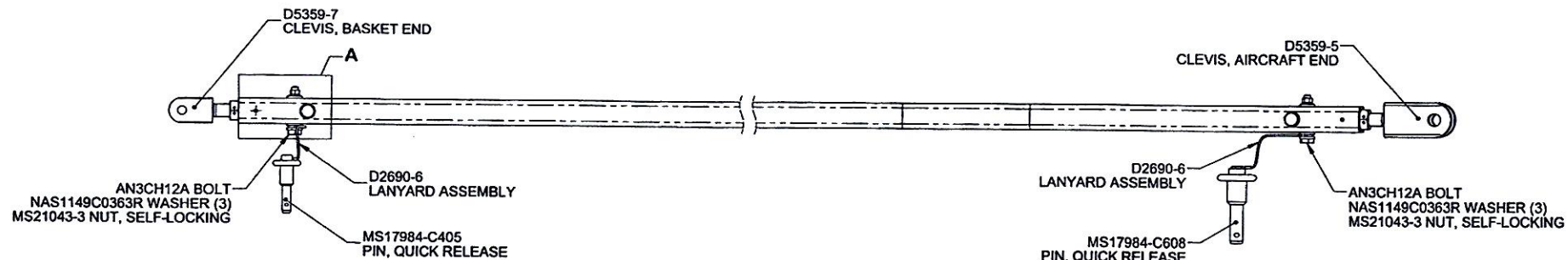
RELEASED
2017-02-10
EW17-508

B	REDESIGNED TO BE COMPATIBLE WITH BOTH LH + RH INSTALLATIONS. -042 DELETED.	AJS	16.12.12
A	NEW ISSUE	VS	15.11.23
REV.	DESCRIPTION	BY	DATE
DESIGN	VS		
DRAWN	NO		
CHECKED	AJS		
MFG. APPR.	DD		
APPROVED	WM		
DE APPR.	DS		
DATE	16.12.12		

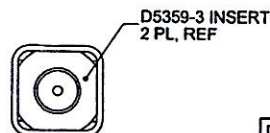
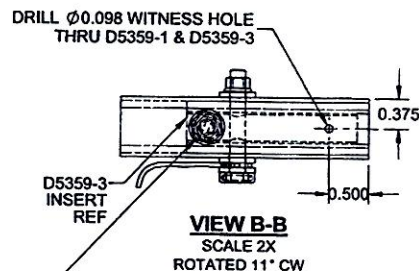
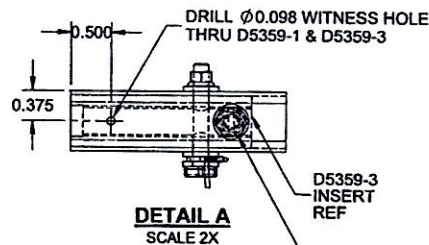
DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D5359** REV. B
SHEET 1 OF 4
TITLE **STRUT ASSEMBLY** SCALE NTS

COPYRIGHT © 2015 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRINTED AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON OR ENTITY WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



D5359-041 STRUT ASSEMBLY

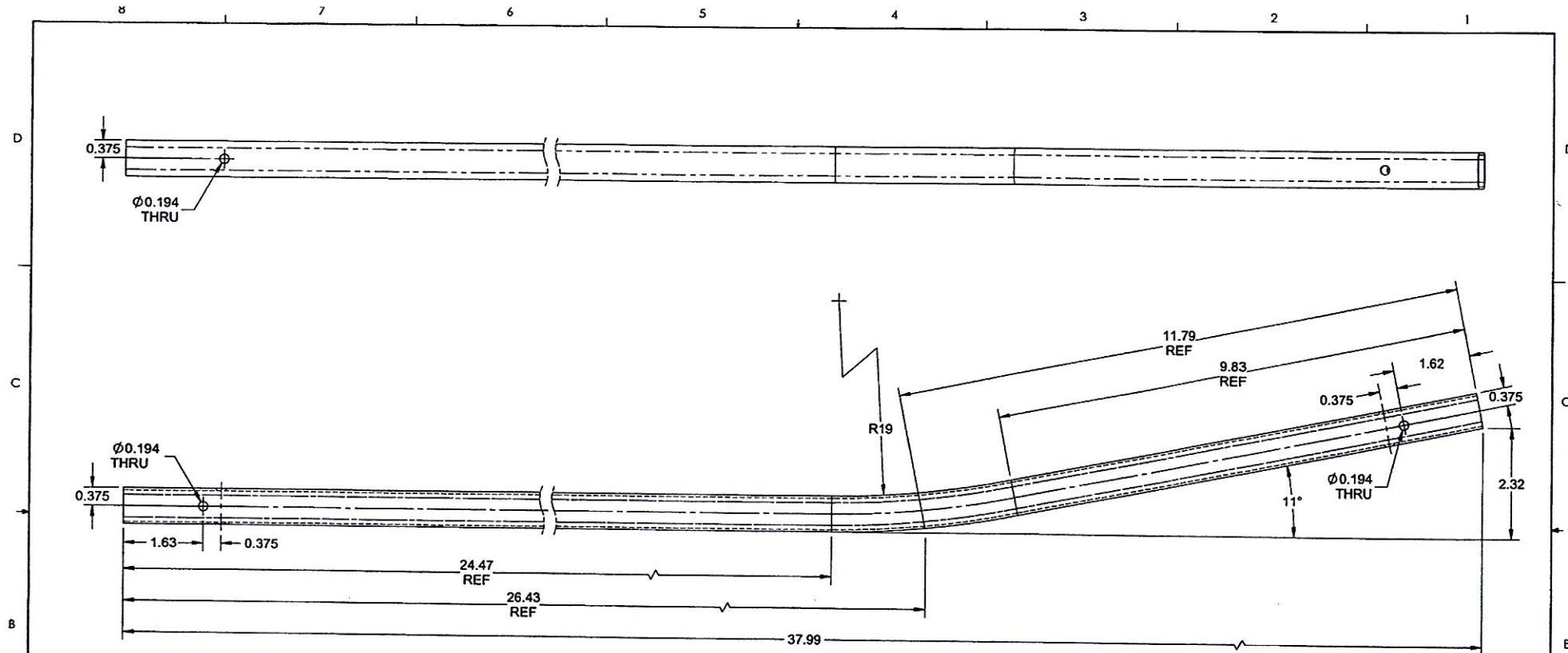


SECTION C-C

SCALE 3X
RELEASED
2017-02-10

APPROVED

DESIGN	VS	DART AEROSPACE LTD	
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AJS	DRAWING NO.	REV. B
MFG. APPR.	DD	D5359	SHEET 2 OF 4
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	STRUT ASSEMBLY	NTS
DATE	16.12.12	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D5359-1 STRUT

NOTES:

- 1) MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBE, 0.75 X 0.75 X 0.049 WALL
REF DART SPEC M304TS0.750W.049
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.40 lbs
- 8) FLAT LENGTH 38.21 REF

RELEASED
2017-02-10

APPROVED

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	NO		
CHECKED	AJS	DRAWING NO.	REV. B
MFG. APPR.	DD	D5359	SHEET 3 OF 4
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	STRUT ASSEMBLY	NTS
DATE	16.12.12	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

